

FIG. 2

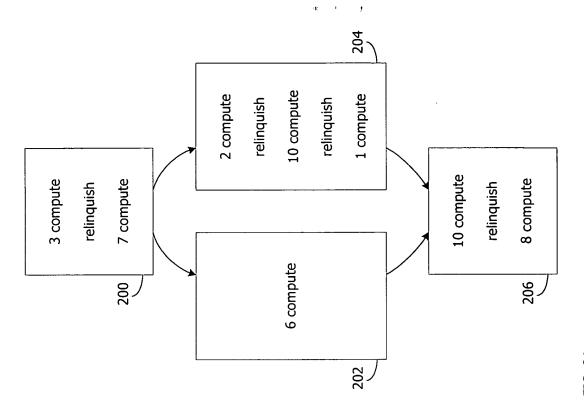


FIG. 3A

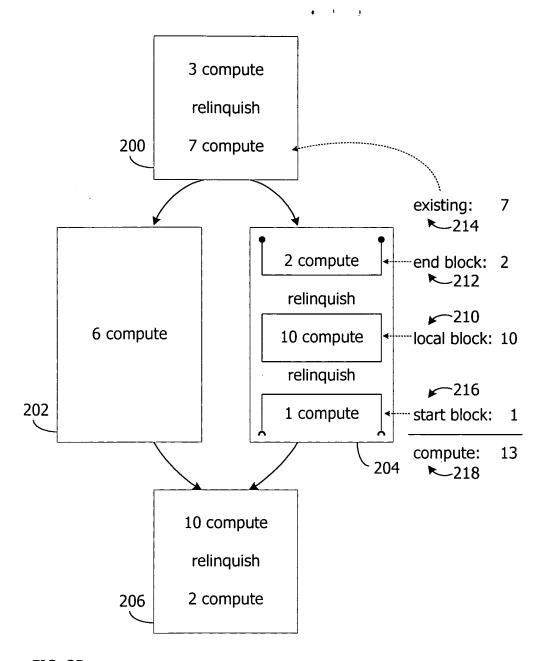


FIG. 3B

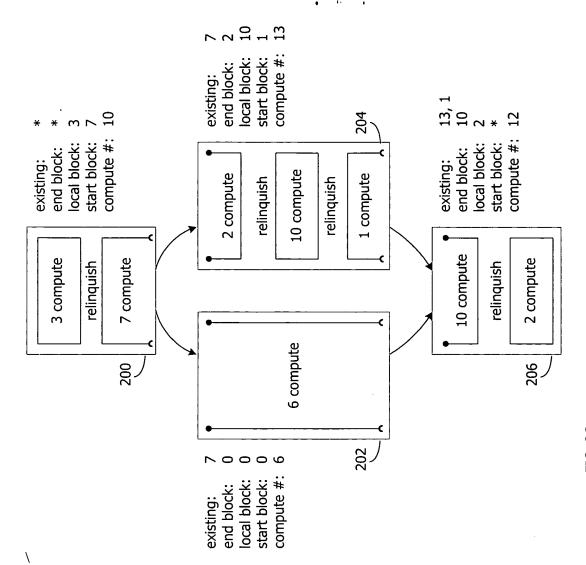


FIG. 3C

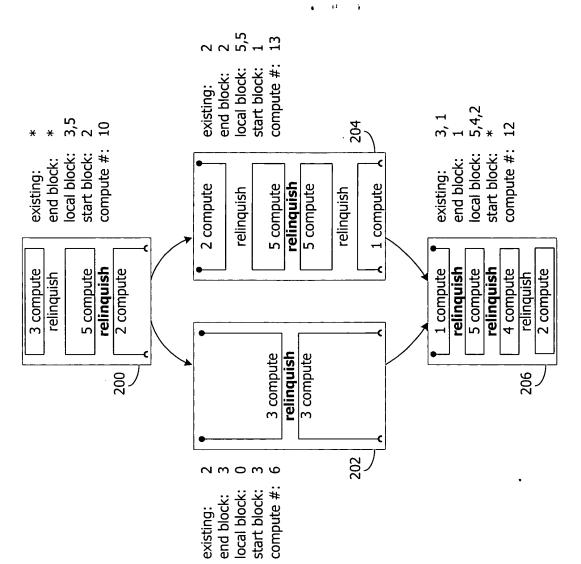


FIG. 3D

```
// for wholly included compute blocks

for each compute block wholly contained in node

if block_size > threshold

number_blocks = ceiling(block_size, threshold)

insert relinquish instructions to break up block into ~ equal number_blocks
```



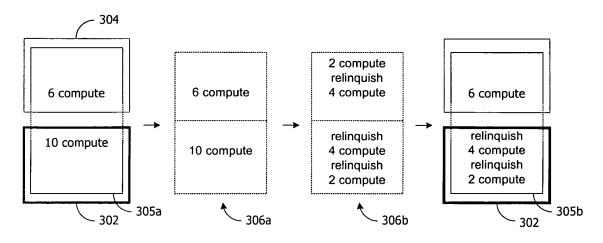


FIG. 4B

// blocks started in ancestor and terminated in current node

if (min (ancestor start block) + end_block) < threshold goto exit

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number_blocks = ceiling((min(ancestor start block)+ end_block) / threshold new_size = (min(ancestor start block) + end_block) / number_blocks instruction_number = min(ancestor start block) modulo new_size

if (instruction_number > end_block) goto exit
end_block = instruction_number

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insert relinquish instructions, starting at instruction_number, every (new_size \pm 1) instructions

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// blocks started in this node and terminated in descendent

if (start_block + min (descendent end block)) < threshold skip this processing

// Determine where to insert the first relinquish instruction

number_blocks = ceiling((start_block + min(descendent end block) / threshold)
new_size = (start_block + min (descendent end block) / number_blocks
instruction_number = min (descendent end block) modulo new_size

insert relinquish instructions, starting instruction_number
from the end of the node, every (new_size + 1) instructions

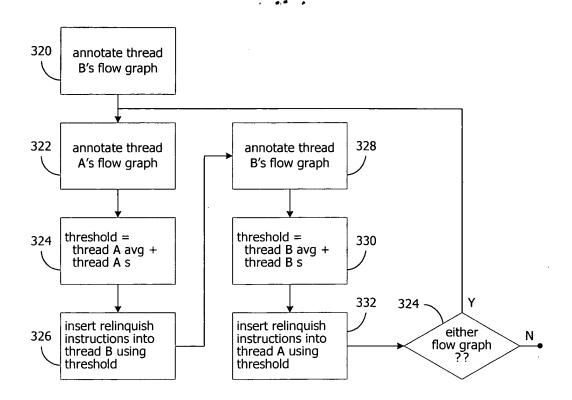


FIG. 5

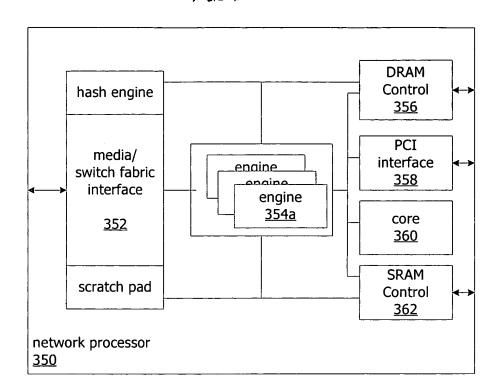


FIG. 6